Course Specifications

General Information

Course name	Dental Material II lab
Course number	DENT2119
Faculty	
Department	
Course type	Major Needs
Course level	2
Credit hours (theoretical)	0
Credit hours (practical)	1
Course Prerequisites	

Course Objectives

1 - Develop a practical knowledge of the composition, properties, manipulative variables, and uses of restorative, preventive, esthetic dental materials which will include the manipulation of selected materials through laboratory and clinical exercises to laboratory competence. ? Provides laboratory experience for developing skills in the applications of dental materials. ? Recognize the common materials utilized in dentistry. ? Provide a rationale for the selection and use of specific materials in dentistry. ? Describe the composition and properties of commonly used materials.

Intended Learning Outcomes

Knowledge and Understanding	* This course provides laboratory/clinical applications of dental materials in the oral environment. From this knowledge base, students learn to understand the role of dental materials in the delivery of preventative and restorative care. The composition, properties, and manipulation of materials used in dentistry, as well as procedures used during application, will be emphasized.

Course Contents

1 - - Primary impression of edentulous cast by Hydrocolloid material alginate (upper and lower) - Primary impression of dentulous cast by Hydrocolloid material alginate (upper and lower)
2 - Primary impression of dentulous cast by rubber impression material (condensation silicone- Zeta-plus)
3 - Primary impression of edentulous cast by non-elastic material – Compound - Zinc oxide eugenol manipulation.
4 - Primary impression of edentulous cast by Hydrocolloid material alginate (upper or lower)
5 - Pouring the impression and trimming of the cast
6 - - Denture base fabrication with occlusal rim.
7 - - Amalgam manipulation
8 - - Composite manipulation
9 - Cement manipulation

Books and References

Course note	1. Phillips' Science of Dental Materials, 12th Edition 2013, K.J. Anusavice. 2. Applied Dental Materials, 9th Edition 2008, John F. McCabe. 3. Craig's restorative dental materials, 14th Edition 2019, R. Sakaguchi, J. Ferracane. 4. Dental Materials properties and manipulation, 10th Edition 2013, John Powers, John Wataha. 5. Materials Science for Dentistry 10th Edition 2017, B. W. Darvell